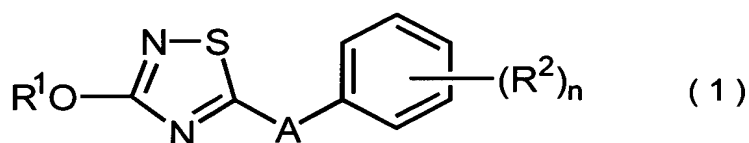


CLAIMS

1. A 1,2,4-thiadiazole compound represented by the formula (1):



5 wherein R¹ represents a C3-C7 alkynyl group optionally substituted with one or more halogen atom(s), R² represents a halogen atom, a C1-C4 alkyl group, a C1-C4 haloalkyl group, a C1-C4 alkoxy group, a C1-C4 haloalkoxy group, a C1-C4 alkylthio group, a cyano group or a nitro group, n
10 represents an integer of 0 to 5, provided that, when n represents an integer of 2 or more, respective R²s may be the same or different,

A represents an oxygen atom, a sulfur atom, a single bond, a CR³R⁴ group or a NR⁵ group, R³ and R⁴ represent each
15 independently a hydrogen atom or a C1-C4 alkyl group, and R⁵ represents a hydrogen atom, a C1-C7 alkyl group, a C1-C3 haloalkyl group, a C2-C4(alkoxyalkyl) group, a C2-C4(haloalkoxyalkyl) group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C7 alkynyl group, a C3-C7
20 haloalkynyl group or a cyanomethyl group.

2. The 1,2,4-thiadiazole compound according to claim 1, wherein A in the formula (1) is a single bond.

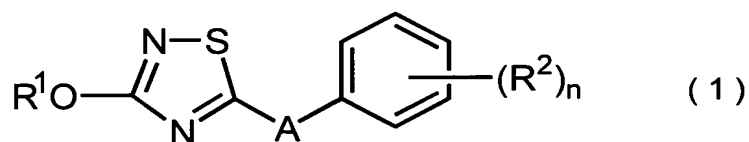
3. The 1,2,4-thiadiazole compound according to claim

1 or 2, wherein R^1 in the formula (1) is a 2-propynyl group, a 2-butynyl group or 2-pentynyl group.

4. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein R^1 in the formula (1) is a 2-butynyl group or a 2-pentynyl group.

5. A composition for controlling a harmful arthropod which comprises an effective amount of the 1,2,4-thiadiazole compound according to claim 1.

6. A method for controlling a harmful arthropod which comprises applying, to harmful arthropods or a place where harmful arthropods inhabit, a 1,2,4-thiadiazole compound represented by the formula (1):



wherein R^1 represents a C3-C7 alkynyl group optionally substituted with one or more halogen atom(s), R^2 represents a halogen atom, a C1-C4 alkyl group, a C1-C4 haloalkyl group, a C1-C4 alkoxy group, a C1-C4 haloalkoxy group, a C1-C4 alkylthio group, a cyano group or a nitro group, n represents an integer of 0 to 5, provided that, when n represents an integer of 2 or more, respective R^2 s may be the same or different,

A represents an oxygen atom, a sulfur atom, a single bond, a CR^3R^4 group or a NR^5 group, R^3 and R^4 represent each

independently a hydrogen atom or C1-C4 alkyl group, and R⁵ represents a hydrogen atom, a C1-C7 alkyl group, a C1-C3 haloalkyl group, a C2-C4(alkoxyalkyl) group, a C2-C4(haloalkoxyalkyl) group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C7 alkynyl group, a C3-C7 haloalkynyl group or a cyanomethyl group.

7. The controlling method according to claim 6, wherein the harmful arthropod is a Hemiptera insect pest, a Lepidoptera insect pest, a Coleoptera insect pest or a Thysanoptera insect pest.

8. The controlling method according to claim 6, wherein the harmful arthropod is a Hemiptera insect pest or a Thysanoptera insect pest.

9. Use of the 1,2,4-thiadiazole compound according to claim 1 as an active ingredient of a composition for controlling a harmful arthropod.